

# **Sufficient conditions for existence and uniqueness of a Chebyshev center of a nonempty bounded set in a geodesic space**

Sosov E.

*Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia*

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## **Abstract**

We obtain sufficient conditions for existence and uniqueness of a Chebyshev center of a nonempty bounded set in a geodesic space. We also establish conditions under which the unique Chebyshev center of a nonempty bounded set in a geodesic space belongs to the closure of the convex hull of this set. © 2010 Allerton Press, Inc.

<http://dx.doi.org/10.3103/S1066369X10060058>

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## **Keywords**

Chebyshev center, geodesic space